

Title (en)

ABRASION AND CORROSION RESISTANT ALLOY AND HARDFACING/CLADDING APPLICATIONS

Title (de)

SCHEUERFESTE UND KORROSIONSBESTÄNDIGE LEGIERUNG UND PANZERUNGS-/VERKLEIDUNGSANWENDUNGEN

Title (fr)

ALLIAGE RÉSISTANT À LA CORROSION ET À L'ABRASION ET APPLICATIONS DE RECHARGEMENT DUR / REVÊTEMENT

Publication

EP 2910663 B1 20170215 (EN)

Application

EP 15162539 A 20130326

Priority

- US 201213431737 A 20120327
- EP 13714503 A 20130326

Abstract (en)

[origin: US2013260177A1] Weld deposit compositions with improved abrasion and corrosion resistance are provided by balancing percent weights of Chromium (Cr), Titanium (Ti), Niobium (Nb), and Boron (B) to allow the Chromium content of the weld matrix to be minimally reduced during carbide formation. The result is an enriched Chromium matrix that has excellent corrosion resistance in combination with highly abrasion resistant dispersed carbides.

IPC 8 full level

C22C 38/44 (2006.01); **B23K 9/04** (2006.01); **B23K 9/16** (2006.01); **B23K 26/34** (2014.01); **B23K 35/02** (2006.01); **B23K 35/30** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01); **C22C 38/56** (2006.01); **B23K 101/10** (2006.01)

CPC (source: EP US)

B23K 9/04 (2013.01 - EP US); **B23K 9/16** (2013.01 - EP US); **B23K 35/0255** (2013.01 - EP US); **B23K 35/0261** (2013.01 - EP US); **B23K 35/0266** (2013.01 - EP US); **B23K 35/3053** (2013.01 - EP US); **B23K 35/308** (2013.01 - EP US); **B23K 35/3086** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **C22C 38/26** (2013.01 - EP US); **C22C 38/28** (2013.01 - EP US); **C22C 38/32** (2013.01 - EP US); **C22C 38/36** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP US); **C22C 38/56** (2013.01 - EP US); **B23K 2101/10** (2018.07 - EP US); **B23K 2101/12** (2018.07 - EP US); **B23K 2101/18** (2018.07 - EP US); **Y10T 428/12951** (2015.01 - EP US); **Y10T 428/12958** (2015.01 - EP US)

Designated contracting state (EPC)

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